

1632

TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT (Under 37 CFR 1.97(b) or 1.97(c)) NOV 04 2004	Docket No. 14727 JFW
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In Re Application Of **Martin Frederick Pera**

Application No.	Filing Date	Examiner	Customer No.	Group Art Unit	Confirmation No.
09/885,679	June 20, 2001	Joseph T. Weitach	23389	1632	6362

Title:

METHODS OF CULTURING EMBRYONIC STEM CELLS AND CONTROLLED DIFFERENTIATION

Address to:
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

37 CFR 1.97(b)

1. ☐ The Information Disclosure Statement submitted herewith is being filed within three months of the filing of a national application other than a continued prosecution application under 37 CFR 1.53(d); within three months of the date of entry of the national stage as set forth in 37 CFR 1.491 in an international application; before the mailing of a first Office Action on the merits, or before the mailing of a first Office Action after the filing of a request for continued examination under 37 CFR 1.114.

37 CFR 1.97(c)

2. ☒ The Information Disclosure Statement submitted herewith is being filed after the period specified in 37 CFR 1.97(b), provided that the Information Disclosure Statement is filed before the mailing date of a Final Action under 37 CFR 1.113, a Notice of Allowance under 37 CFR 1.311, or an Action that otherwise closes prosecution in the application, and is accompanied by one of:

☒ the statement specified in 37 CFR 1.97(e);

OR

☐ the fee set forth in 37 CFR 1.17(p).

TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT
(Under 37 CFR 1.97(b) or 1.97(c))

Docket No.
14727

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09/885,679	June 20, 2001	Joseph T. Voitach	23389	1632	6362

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Payment of Fee

(Only complete if Applicant elects to pay the fee set forth in 37 CFR 1.17(p))

- ☐ A check in the amount of _____ is attached.
- ☒ The Director is hereby authorized to charge and credit Deposit Account No. 19-1013/SSMP as described below.
- ☐ Charge the amount of _____
- ☒ Credit any overpayment.
- ☒ Charge any additional fee required.
- ☐ Payment by credit card. Form PTO-2038 is attached.

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

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Certificate of Mailing by First Class Mail

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November 2, 2004
(Date)


Signature of Person Mailing Correspondence

Frank S. DiGiglio
Typed or Printed Name of Person Mailing Certificate

*This certificate may only be used if paying by deposit account.

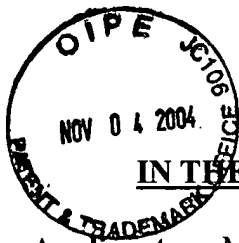

Signature

Dated: November 2, 2004

Frank S. DiGiglio
Registration No. 31,346
Scully, Scott, Murphy & Presser
400 Garden City Plaza, Suite 300
Garden City, New York 11530
516-742-4343

FSD:dg

CC:



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Martin Frederick Pera **Examiner:** Joseph T. Voitach
Serial No.: 09/885,679 **Art Unit:** 1632
Filed: June 20, 2001 **Docket:** 14727
For: METHODS OF CULTURING **Dated:** November 2, 2004
 EMBRYONIC STEM CELLS AND
 CONTROLLED DIFFERENTIATION

Confirmation No.: 6362

Mail Stop Amendment
Commissioner for Patents
P. O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

In accordance with 37 C.F.R §§1.97 and 1.98, it is requested that the following references, which are also listed on the attached Form PTO-1449, be made of record in the above-identified case.

1. Grabel L. et al., "Using EC and ES Cell Culture to Study Early Development: Recent Observations on *Indian Hedgehog and Bmps*", *Int. J. Dev. Biol.* 42:917-925 (1998), XP-002963060;
2. Wiles M.V. et al., "Embryonic Stem Cell Development in a Chemically Defined Medium", *Experimental Cell Research* 247:241-248 (1999), XP-002209791;

CERTIFICATE OF MAILING UNDER 37 C.F.R. §1.8(a)

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on November 2, 2004.

Dated: November 2, 2004



Frank S. DiGiglio

3. Finley M.F.A. et al., "BMP-4 Inhibits Neural Differentiation of Murine Embryonic Stem Cells", *Journal of Neurobiology* 40(3):271-287 (1999), XP-009017895;
4. Andrade J. et al., "BMP-2 Regulation of the Differentiation of Human Pluripotent Stem Cells", *Cell Biology International* 24(12):1008 (2000), XP-002288134;
5. Pera M.F. et al., "Human Embryonic Stem Cells", *Journal of Cell Science* 113:5-10 (2000), XP-002950487;
6. Ying Q.L. et al., "BMP Induction of Id Proteins Suppresses Differentiation and Sustains Embryonic Stem Cell Self-Renewal in Collaboration with STAT3", *Cell* 115:281-292 (2003), XP-002288135; and
7. Pera M.F. et al., "Regulation of Human Embryonic Stem Cell Differentiation by BMP-2 and its Antagonist Noggin", *Journal of Cell Science* 117(7):1269-1280 (2004), XP-009030261.

The references were cited in a Supplementary Search Report dated August 3, 2004 received from the European Patent Office. Applicant is submitting copies of references nos. 1-2, 4 and 6-7, together with a copy of the Search Report. The relevance of the above-identified references has been described in the Search Report. Please note that above-cited reference no. 3 was filed in an Information Disclosure Statement dated November 1, 2001 and above-cited reference no. 5 was filed in an Information Disclosure Statement dated July 28, 2001.

Inasmuch as this Information Disclosure Statement is being submitted in accordance with the schedule set out in 37 C.F.R. § 1.97(c)(1) and (e)(1), a statement is enclosed.

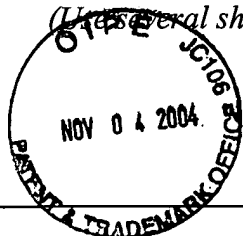
Respectfully submitted,


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Form PTO-1449
(REV. 7-80) PATENT AND TRADEMARK OFFICE**LIST OF PRIOR ART
CITED BY APPLICANT**

(Use several sheets if necessary)

**Atty. Docket No. (Optional)**

14727

Application Number

09/885,679

Applicant(s)

Martin Frederick Pera

Filing Date

June 20, 2001

Group Art Unit

1632

U.S. PATENT DOCUMENTS

EXAMINER INITIAL*		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (if appropriate)
	AA						
	AB						
	AC						
	AD						
	AE						

FOREIGN PATENT DOCUMENTS

	REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

		Grabel L. et al., "Using EC and ES Cell Culture to Study Early Development: Recent Observations on Indian Hedgehog and Bmps", <i>Int. J. Dev. Biol.</i> 42:917-925 (1998), XP-002963060
		Wiles M.V. et al., "Embryonic Stem Cell Development in a Chemically Defined Medium", <i>Experimental Cell Research</i> 247:241-248 (1999), XP-002209791
		Finley M.F.A. et al., "BMP-4 Inhibits Neural Differentiation of Murine Embryonic Stem Cells", <i>Journal of Neurobiology</i> 40(3):271-287 (1999), XP-009017895
		Andrade J. et al., "BMP-2 Regulation of the Differentiation of Human Pluripotent Stem Cells", <i>Cell Biology International</i> 24(12):1008 (2000), XP-002288134
		Pera M.F. et al., "Human Embryonic Stem Cells", <i>Journal of Cell Science</i> 113:5-10 (2000), XP-002950487
		Ying Q.L. et al., "BMP Induction of Id Proteins Suppresses Differentiation and Sustains Embryonic Stem Cell Self-Renewal in Collaboration with STAT3", <i>Cell</i> 115:281-292 (2003), XP-002288135
		Pera M.F. et al., "Regulation of Human Embryonic Stem Cell Differentiation by BMP-2 and its Antagonist Noggin", <i>Journal of Cell Science</i> 117(7):1269-1280 (2004), XP-009030261

EXAMINER**DATE CONSIDERED**

* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



Accordingly, it is respectfully requested that the accompanying Information Disclosure Statement be considered with respect to the above-identified application.

Respectfully submitted,

A handwritten signature in black ink, appearing to read "F. DiGiglio".

Frank S. DiGiglio
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